3M Science. Applied to Life.™

3M™ Versaflo™ M-400 Helmet

Technical Data Sheet

Description

An air supplied helmet that provides respiratory, eye, face and head protection when suitably connected to an AS/NZS 1716 compliant air supply system. It comes with a neck and shoulder shroud for extra protection.

Features

- Lightweight, with excellent balance
- Fully-adjustable suspension that includes textile straps for optimal fit and weight distribution
- M-400 headtop offers head protection to AS/NZS 1801
- Multiple size adjustment options allow for a comfortable fit
- An air deflector allows users to direct the airflow down or into the face for increased control and comfort
- Visor design combines excellent peripheral and downward vision with good optical clarity
- Coated polycarbonate visor provides added chemical and scratch resistance and high impact protection
- QRS (Quick Release Swivel) breathing tubes allow fast and easy snap on/off connection
- A length-adjusting breathing tube is also available
- Easily removable parts allow simple cleaning, maintenance and replacement
- Most user interface/adjustment points are highlighted in blue for convenience
- To suit a wide range of needs, industries and applications, the 3M™ Versaflo™ M-400 headtop offers shrouds in various fabrics
- Accessories include peel-off´s, head cover and shroud options and a cap lamp bracket
- Many parts are common to all 3M™ Versaflo™ M-Series headtops, meaning reduced inventories and downtime

Applications

There are many workplace applications, including:

- Grinding
- Foundries
- Heavy Industry
- Metal Fabrication
- Processing plants

Suitable for use with TR-800 Turbo Unit, TR-300+ Turbo Unit, TR-600 Turbo unit and supplied air 3M Regulating V-Series Regulators and Valves

Compatible with

PAPR

TR-300+

TR-600

TR-800

Continuous Flow Supplied Air

V-500E

V-100

V-200

V-300

Standards

The M-Series headtops meet the performance requirements of Australian/New Zealand Standards AS/NZS 1716:2012:

- when connected to the 3M™ TR-800, TR-600, TR-300+.
- when connected to the 3M™ Air Regulating Valves or 3M™ Vortex™ Regulators.

AS/NZS 1337.1 compliant high impact eye/face protection.

AS/NZS 1801 Type 1 Industrial Safety Helmet.

Operation/Cleaning

Users need to be trained in the safe operation of this equipment. Routine checks must be carried out in accordance with the user instructions. Cleaning should also only be carried out as specified in the user instructions.

Specifications

	Versalfo™ M-400 Helmet
Weight	1066g (without breathing tube)
Storage Conditions	-30°C to +50°C and <90% humidity

Ordering Information

		Availability			
SAP ID	**Legacy ID**	**AUS**	**NZ**	**Model #**	**Description**
7000104037	XA007707483	•	•	M-406	3M™ Versaflo™ High Impact Helmet M-406, with Premium Visor and M-448 Codura Shroud, 1 ea/Case
7100258668	UU011469994	•	•	M-407	3M™ Versaflo™ M-Series Helmet with Flame Resistant Shroud, M-407, 1 Each/Case

BT-20 S/L

BT-30

BT-40

QR-PSA-BT

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Breathing Tubes

		Availability			
SAP ID	**Legacy ID**	**AUS**	**NZ**	**Model #**	**Description**
7100296133	70071767472	•		BT-20L	3M™ Versaflo™ Breathing Tube BT-20L, Medium/Large, 1 ea/Case. Fixed length lightweight Polyurethane L=965mm
7100134625	70071533023	•		BT-20S	3M™ Versaflo™ Breathing Tube, BT-20S/37309(AAD), Small/Medium, 1 EA/Case. Short Fixed length lightweight Polyurethane L=735mm
7100006955	XA007706584	•	•	BT-30	3M™ Versaflo™ Breathing Tube, Self-adjusting, BT-30 L= 525-850
7100069524	UU003085113	•	•	BT-40	3M™ Versaflo™ Heavy Duty Breathing Tube BT-40, 1 ea/Case Fixed length Neoprene Rubber L=840mm

Technical Statement

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QR-PSA-VID

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Spare Parts & Accessories

SAP ID	Legacy ID	Availability AUS	Availability NZ	Model #	Description
7000042895	70071564218	•	•	M-316	3M™ Versaflo™ Airflow Deflector, M-316, 1/case
7000030034	70071564226	•	•	M-350	3M™ Versaflo™ Head Suspension, M-350, 1/case
7100063885	UU003029475	•	•	M-441	3M™ Versaflo™ Helmet Jaw Gasket M-441, 1 ea/Case
7100137832	UU008294819	•	•	M-444	3M™ Versaflo™ Inner Collar M-444, 1 ea/Case
7100137850	UU008294108	•	•	M-447	3M™ Versaflo™ Outer Shroud, Flame Resistant M-447, 1 ea/Case
7100137905	UU008294827	•	•	M-448	3M™ Versaflo™ Outer Shroud, Heavy Duty M-448, 1 ea/Case
7100289614	70071767514	•	•	M-449	3M™ Versaflo™ M-Series Leather Shroud M-449, 1 ea/Case
7000042899	70071564309	•	•	M-919	3M™ Versaflo™ M-Series Visor Frame Buttons M-919, 10 ea/Case
7000030038	70071564317	•	•	M-920	3M™ Versaflo™ Visor Frame Assembly, M-920, 1/case
7000042900	70071564325	•	•	M-921	3M™ Versaflo™ Visor Gasket, M-921, 5/case
7100288242	70071767332	•	•	M-924-25	3M™ Versaflo™ Tinted Peel-Off Covers M-924, for M-927 Premium Visor, 25 ea/Case
7000052876	UU003029442	•	•	M-927	3M™ Versaflo™ Premium Visor M-927/37324(AAD), 5 EA/Case
7100001829	70071564341	•	•	M-928	3M™ Versaflo™ Peel-Off Visor Covers M-928, 40 ea/Case
7100198700	70071732237	•	•	M-930	3M™ Versaflo™ M-930 Visor Lock Kit 5 EA/Bag
7100265324	70071766334	•	•	M-940	3M™ Versaflo™ Mining Lamp Bracket Kit M-940, for M-Series Hard Hats and Helmets, 1 ea/Case
7000044488	52000183096	•	•	M-953	3M™ Versaflo™ M-Series Helmet Headband Back Part Ratchet M-953, 1 Each/Bag, 20 Bag/Case
7100064142	UU003029772	•	•	M-956	3M™ Versaflo™ M-Series Size Reducing Ratchet Comfort Pad M-956, 10 ea/Case
7000103918	XA007705925	•	•	M-957	3M™ Versaflo™ Forehead Comfort Pad M-957, 10 Pair/Pack, 10 Pack/Case
7010604274	JH200201418	•	•	M-959	3M™ Versaflo™ Chinstrap M-959 for M-200/M-300/M-400 Helmet, 1 EA/Case
7100063882	UU003029434	•	•	M-972	3M™ Versaflo™ Flame Resistant Headtop Cover M-972, 1 ea/Case

QR-TRM-407C

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QR-ALVM-406E

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ALVM-406E Kit (902-03-86)
Includes 1 x CEJN 342 fitting attached

Ready to use M-400 PAPR & Continuous Flow Supplied Air Kits

		Availability			
SAP ID	**Legacy ID**	**AUS**	**NZ**	**Model #**	**Description**
7012875691	AT010590563	•	•	TRM-407C	3M™ Versaflo™ TR-300+ PAPR Kit which includes TR-302E+ Air filter unit, M-407 Headtop with flame resistant shroud, BT-30 Breathing Tube, TR-970 Air flow indicator, TR-332 Battery Pack, TR-342A Single station Battery charger, TR-3712E PAPR-P3 Particulate filter, TR-371+ Filter cover, TR-3600 Prefilter, TR-362E Spark arrestor, TR-325 Standard waist belt and S1303-0166 padded bag.
7012883633	AT010587809	•		ALVM-406E (902-03-86)	3M™ Versaflo™ Supplied Air Spray Kit ALVM-406E 902-03-86, with V-500E with CEJN 342 fitting BT-30 Breathing Tube & M-406 with S1303-066 Storage Bag, 1 ea/Case

SCAN OR CLICK FOR:

QR-CAT-PAPR

PAPR Catalogue Section

QR-CAT-CFSA

Continuous Flow Supplied Air Catalogue Section

QR-CAT-FULL

Full Personal Safety Division Catalogue

3M™ High Heat Accessories for 3M™ Versaflo™ M-300 and M-400 Helmets

The 3M™ Radiant Heat Covers M-973/M-975 when used in combination with the 3M™ M-967 Over-Visor offers 360° coverage of the 3M™ Versaflo™ M-300 / M-400 Helmets. Protection in accordance with EN ISO 11612:2015, EN 166:2001, EN 170:2002 and EN 171:2002 is offered against radiant heat and sparks/splashes for all parts of the helmet.

Features and Benefits:

- Designed to be robust and durable to withstand some of the harshest environments experienced in the metal production industry
- Adaptable - the radiant heat cover and overvisor components are fully modular allowing the user to create multiple combinations and different coverage levels to adapt the unit to their specific needs and environment
- Low profile, designed specifically for use with 3M™ Versaflo™ M-300 / M-400 Helmets
- The flip-up over-visor design provides the user with the flexibility of shaded IR/UV protection when needed and the peace of mind of clear vision when not required
- Utilises the 3M™ Visor Carrier M-961 to fit to the 3M™ Versaflo™ M-300 / M-400 Helmets
- Optional 3M™ Radiant Heat Breathing Tube Cover BT-927 also available

Typical Industries:

- Metalworking
- Foundries
- Glass industry
- Ceramic / porcelain industry
- Refractory product industry

M-400 with M-975 Radiant Heat Cover with M-967 Gold Over Visor

3M™ Gold Over Visor M-967

3M™ Over Visor Frame M-961

3M™ Radiant Heat Cover M-973 for M-300

3M™ Radiant Heat Cover M-975 for M-400

3M™ Breathing Tube Radiant Heat Cover BT-927

Radiant Heat Cover Performance	
EN ISO 11612 Code letter and classification Heat transmission performance requirement	
A1	Limited flame spread
B1	Convective hear
C3	Radiant heat
D3	Molten aluminium splash
E3	Molten iron splash

Gold Over Visor and Over Visor Frame Performance

Model	European standard	Scale number	Optical class	Symbol	Field of use	Mechanical strength
M-967 Gold Over Visor	EN 166:2001		1	BT	High speed particles	Medium energy impact at extremes of temperature
				9	Molten metal splash	
	EN 170:2002	2-5 (UV)				
	EN 171:2002	4-5 (IR)				
M-961 Over Visor Frame	EN 166:2001			BT	High speed particles	Medium energy impact at extremes of temperature
				9	Molten metal splash	

		Availability			
SAP ID	Legacy ID	AUS	NZ	Model #	Description
7100099853	UU006077661	•	•	M-973	3M™ Versaflo™ Radiant Heat Cover, M-973
7100099910	UU006081861	•	•	M-961	3M™ Versaflo™ Over-visor Frame M-961, 1 ea/Case
7100099909	UU006081887	•	•	M-967	3M™ Versaflo™ Over-visor, Gold, IR Shade 5, M-967
7100099854	UU006077679	•	•	M-975	3M™ Versaflo™ PAPR Radiant Heat Cover M-975, for M-400, 1 ea/Case
7100099908	UU006081895	•	•	BT-927	3M™ Versaflo™ Breathing Tube Radiant Heat Cover BT-927, 1 ea/Case

QR-MS-HHA

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3M™ M-Series Headgear Assemblies Comparison Chart

	M-206	M-207	M-306	M-307 & M-307CAP	M-406	M-407
Availability	AU	AU & NZ	AU & NZ	AU & NZ	AU & NZ	AU & NZ
Style	Loose fitting facepiece faceshield	Loose fitting facepiece faceshield	Loose fitting facepiece helmet	Loose fitting facepiece helmet	Loose fitting facepiece helmet with shroud	Loose fitting facepiece helmet with shroud
Air sources approved with*	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800 PF-600E-ASB	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800 PF-600E-ASB	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800 PF-600E-ASB	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800 PF-600E-ASB	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800	V-Series (V-100, V-200, V-300, V-500E) TR-300+ TR-600 TR-800
Eye and Face Protection	← AS/NZS 1337.1 Eye & Face Protection - High Impact →					
Head Protection	EN 812:2012 (Bumpcap protection)	EN 812:2012 (Bumpcap protection)	AS/NZS 1801 Occupational Protective Helmets - Type 1	AS/NZS 1801 Occupational Protective Helmets - Type 1	AS/NZS 1801 Occupational Protective Helmets - Type 1	AS/NZS 1801 Occupational Protective Helmets - Type 1
Optional Hearing Protection	AS/NZS 1270 Hearing Protectors	AS/NZS 1270 Hearing Protectors	AS/NZS 1270 Hearing Protectors	AS/NZS 1270 Hearing Protectors	Not applicable	Not applicable
Visor	M-925 standard visor	M-927 premium visor	M-925 standard visor	M-927 premium visor	M-925 standard visor	M-927 premium visor
Visor Material	Polycarbonate	Coated Polycarbonate (silicone hard coat)	Polycarbonate	Coated Polycarbonate (silicone hard coat)	Polycarbonate	Coated Polycarbonate (silicone hard coat)
Faceseal or Shroud	M-936 comfort faceseal	M-937 flame resistant faceseal	M-936 comfort faceseal	M-937 flame resistant faceseal	M-448 High Durability outer shroud; M-444 inner collar	M-447 flame resistant outer shroud; M-444 inner collar
Faceseal or Shroud Material	Polyurethane coated knitted polyamide	Flame retardant coated polyester	Polyurethane coated knitted polyamide	Flame retardant coated polyester	Outer shroud: High Durability Polyurethane coated knitted polyamide Inner collar: Polyurethane coated knitted polyamide	Outer shroud: Nomex® IIIA fabric Inner collar: Polyurethane coated knitted polyamide
Visor Area (approx.)	426 sq. cm	426 sq. cm	426 sq. cm	426 sq. cm	426 sq. cm	426 sq. cm
Visor Thickness (approx.)	Center: 2.3 mm Edge: 1.3 mm	Center: 2.3 mm Edge: 1.3 mm	Center: 2.3 mm Edge: 1.3 mm	Center: 2.3 mm Edge: 1.3 mm	Center: 2.3 mm Edge: 1.3 mm	Center: 2.3 mm Edge: 1.3 mm
Maximum Size Range[2] Circumference	51-64 cm	51-64 cm	51-64 cm	51-64 cm	51-64 cm	51-64 cm
Approx. Weight[3] g	624 g	626 g	850 g	857 g	1049 g	1190 g
Headgear Shell	HDPE (High density polyethylene)	HDPE (High density polyethylene)	PC/PBT alloy (polycarbonate/polybutylene terephthalate)	PC/PBT alloy (polycarbonate/polybutylene terephthalate)	PC/PBT alloy (polycarbonate/polybutylene terephthalate)	PC/PBT alloy (polycarbonate/polybutylene terephthalate)
Headband	M-150 TPE (Thermoplastic elastomer)	M-150 TPE (Thermoplastic elastomer)	M-350 TPE (Thermoplastic elastomer)	M-350 TPE (Thermoplastic elastomer)	M-350 TPE (Thermoplastic elastomer)	M-350 TPE (Thermoplastic elastomer)
Visor Frame	← PC/PBT alloy (polycarbonate/polybutylene terephthalate) →					
Visor Gasket (M-921)	← TPE (Thermoplastic elastomer) →					
Operating Temp.	← -10° C to 55° C →					
Storage Temp.	← -30° C to 50° C Note: 4° C to 35° C (40° F to 95° F) suggested storage temperature range if product will be stored for an extended period before first use →					
Natural Rubber Latex	Does not contain components made from natural rubber latex					
Maximum Life	5 year recommended maximum life (shelf life plus in use life) for all models when stored in original packaging and according to the recommended storage conditions. User must inspect headgear prior to each use to determine usability. Consult M-Series Headgear User Instructions for more information.					

*Refer to code sections for further information on country availability.

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